DEVICE AND METHOD FOR COMPRESSING AND DECOMPRESSING DATA FOR GRAPHICS DISPLAY

ABSTRACT OF THE DISCLOSURE

A data compressing and decompressing device is adapted to be used with an image pickup device and a frame buffer. The data compressing and decompressing device includes a first data register in communication with the image pickup device, a first encoder in communication with the first data register, a second encoder in communication with the first encoder and the frame buffer, a decoder in communication with the frame buffer, and a second data register in communication with the decoder. The second encoder encodes the difference into a length-variable recovery data code in a first condition of the difference, encodes the difference into a first constant-length recovery data code in a second condition of the difference, and encodes the difference into a second constant-length recovery data code in a third condition of the difference.